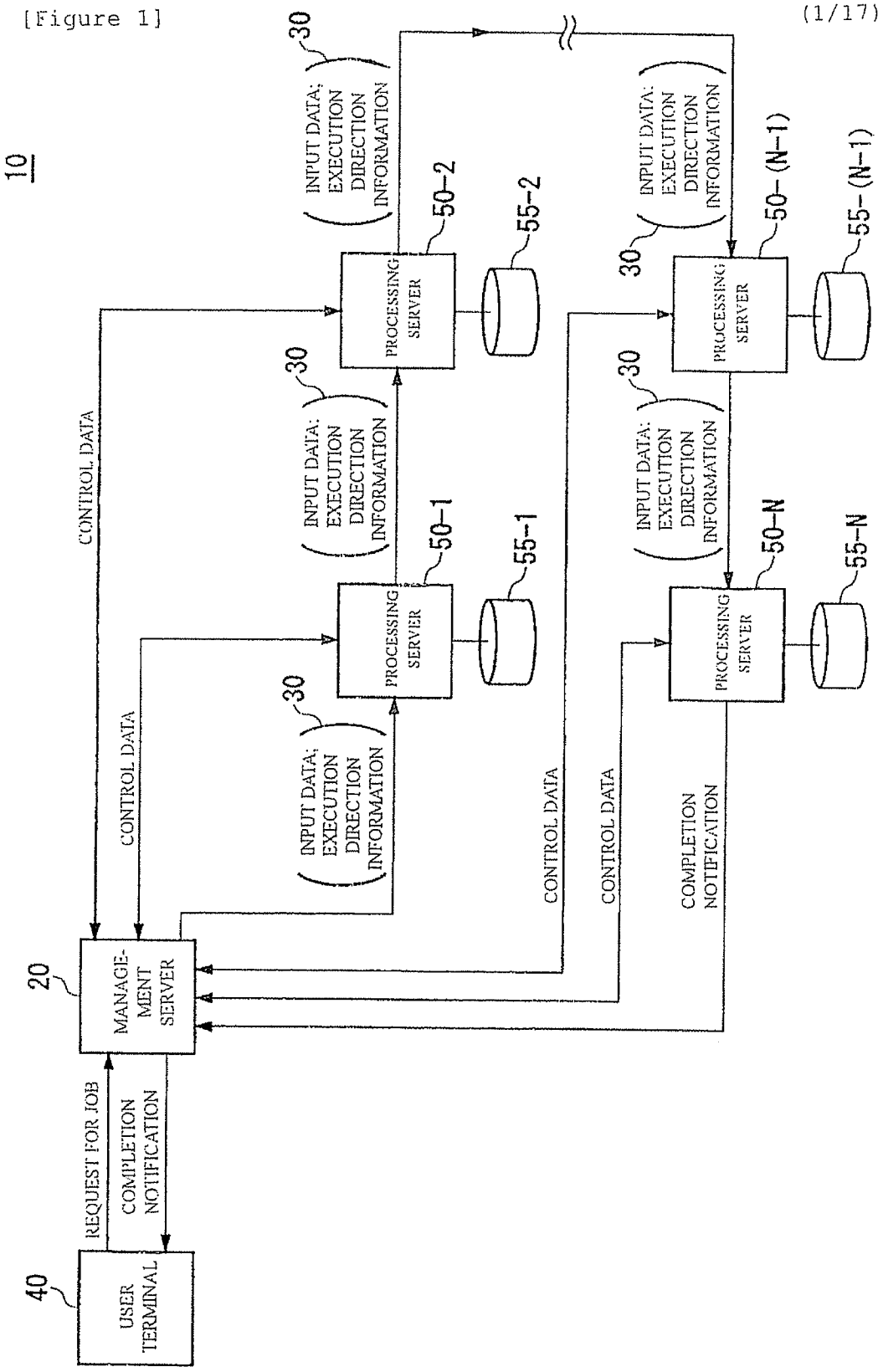
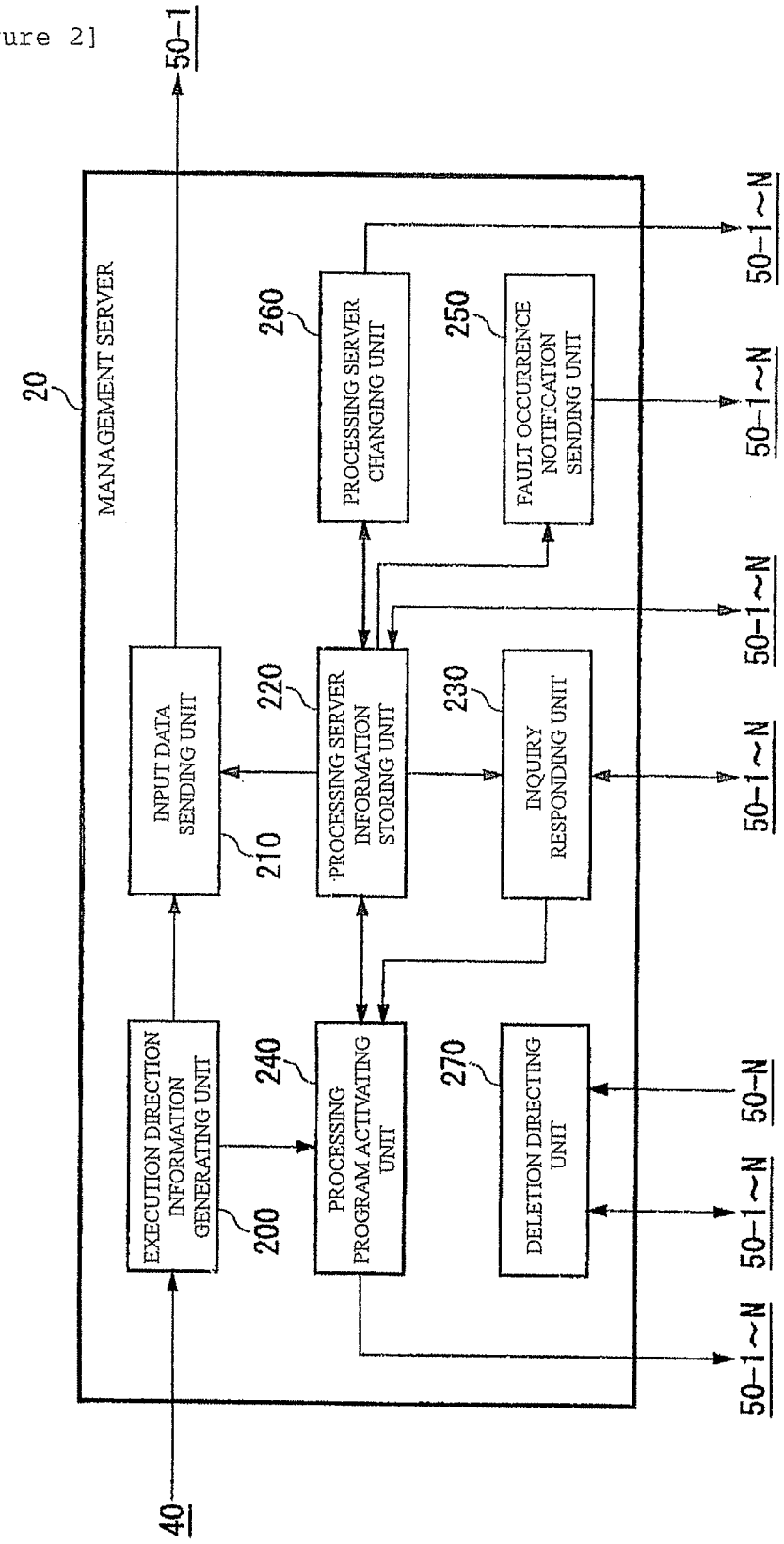
[Document type] Drawing

[Figure 1]

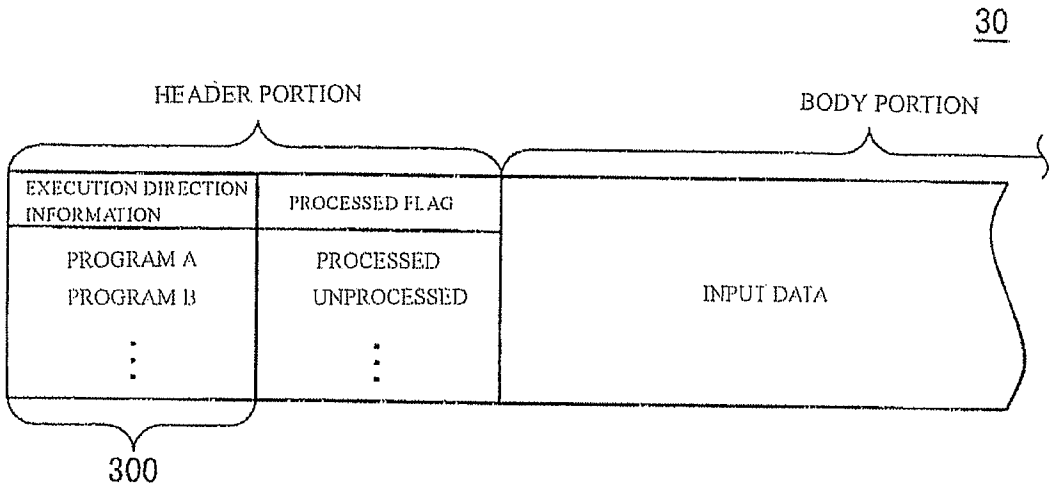


[Figure 2]


50-1
20
MANAGEMENT SERVER
260
PROCESSING SERVER CHANGING UNIT
250
FAULT OCCURRENCE NOTIFICATION SENDING UNIT
50-1~N
50-1~N
50-1~N
INPUT DATA SENDING UNIT
210
220
PROCESSING SERVER INFORMATION STORING UNIT
230
INQUIRY RESPONDING UNIT
50-1~N
EXECUTION DIRECTION INFORMATION GENERATING UNIT
200
240
PROCESSING PROGRAM ACTIVATING UNIT
270
DELETION DIRECTING UNIT
50-N
50-1~N
50-1~N
40

[Figure 3] (3/17)

(a)



(b)

300

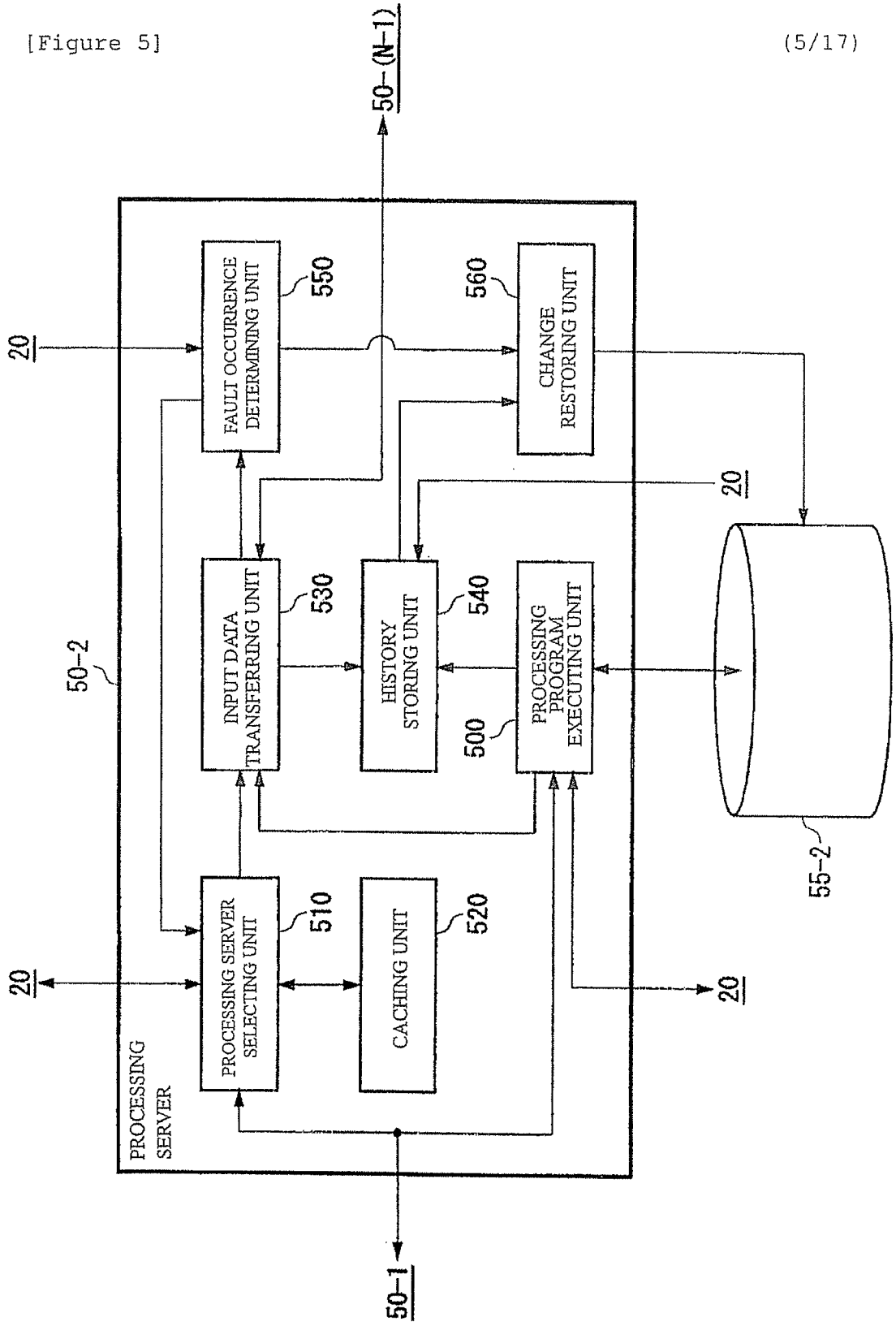
```
1:  //JOB01     JOB
2:  //STEP01    EXEC   Program= ProgramA
3:  //INdata    FILE   Filename=InfileA
4:  //OUTdata   FILE   Filename=OutfileA
5:  //STEP02    EXEC   Program= ProgramB
6:  //INdata    FILE   Filename=OutfileA
7:  //OUTdata   FILE   Filename=OutfileB
                .
                .
                .
```

[Figure 4]

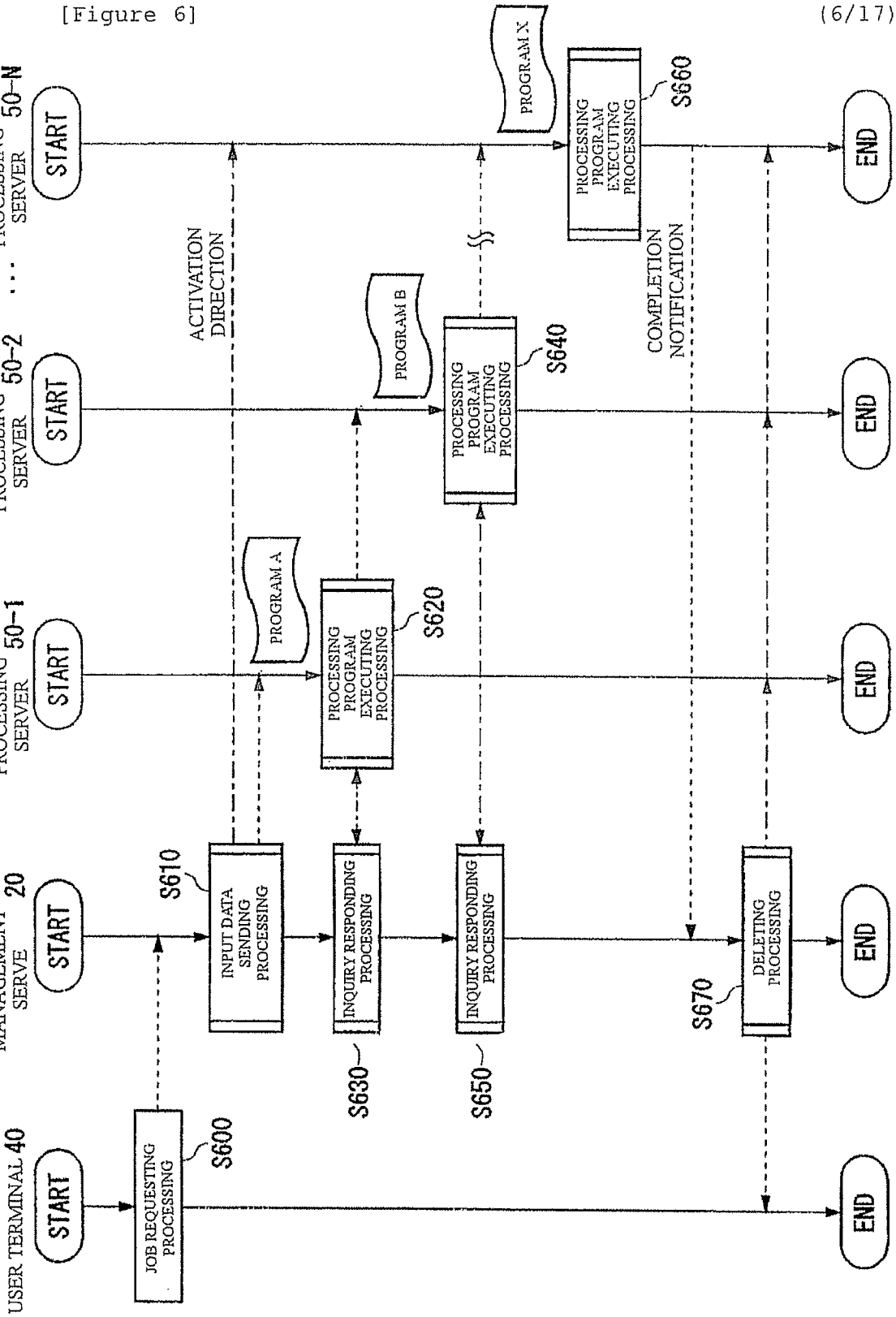
220

PROCESSING SERVER ID	PROCESSING PROGRAM			EXECUTABILITY INFORMATION	MAXIMUM THROUGHPUT	USAGE RATE
	ID	NUMBER OF PROCESSINGS	LAST RECEIVING NOTIFICATION			
Node AA	A	1	15:55		55	95%
Node BB	B	2	16:15		50	60%
Node CC	A	2	14:35		55	95%
Node DD	A	2	16:00		65	91%
Node EE	—	—	—	—	60	50%
. . .	. . .	. . .	. . .	. . .	. . .	. . .

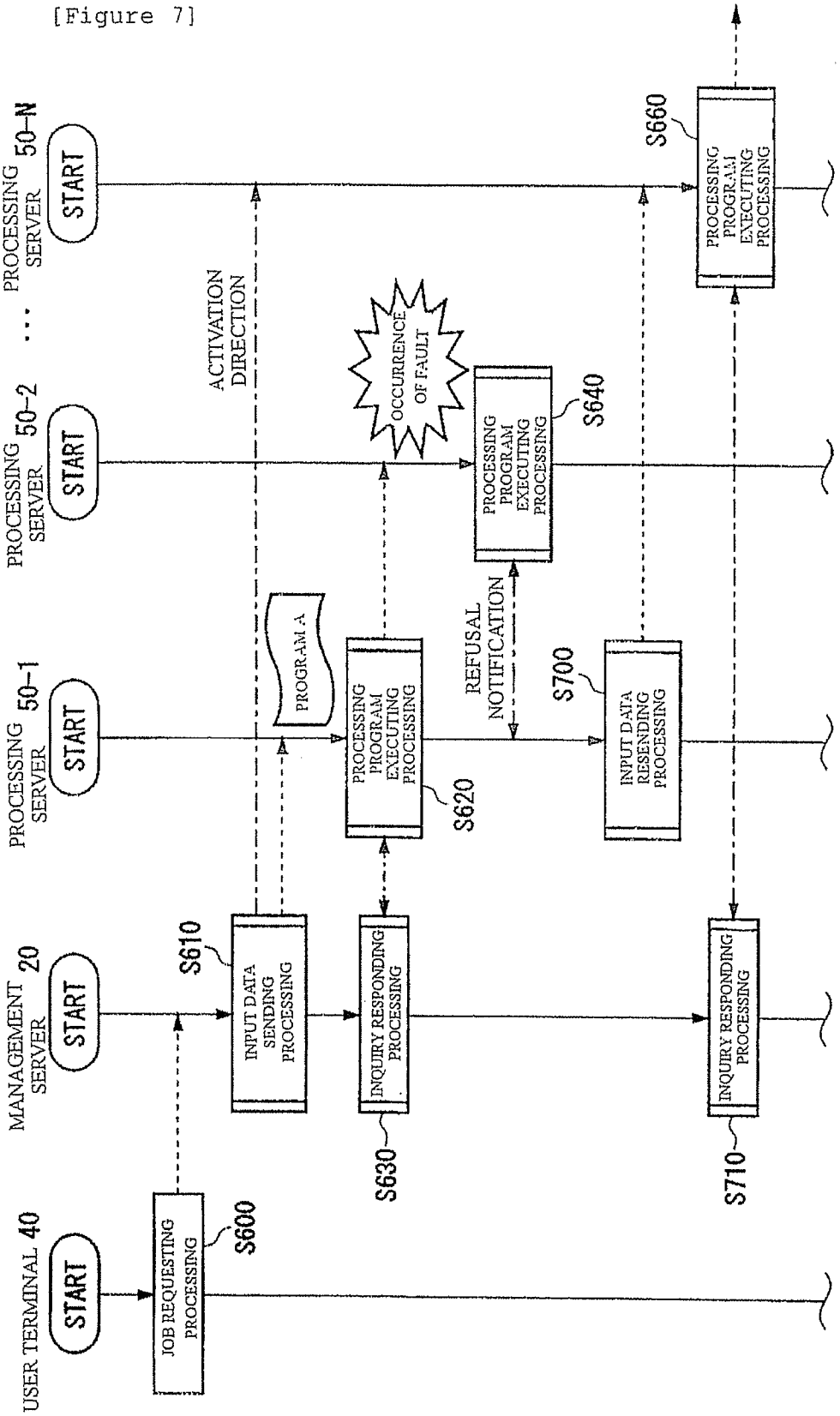
[Figure 5]


50-(N-1)
20
FAULT OCCURRENCE DETERMINING UNIT
550
560
CHANGE RESTORING UNIT
20
50-2
INPUT DATA TRANSFERRING UNIT
530
HISTORY STORING UNIT
540
PROCESSING PROGRAM EXECUTING UNIT
500
55-2
20
PROCESSING SERVER SELECTING UNIT
510
CACHING UNIT
520
20
PROCESSING SERVER
50-1

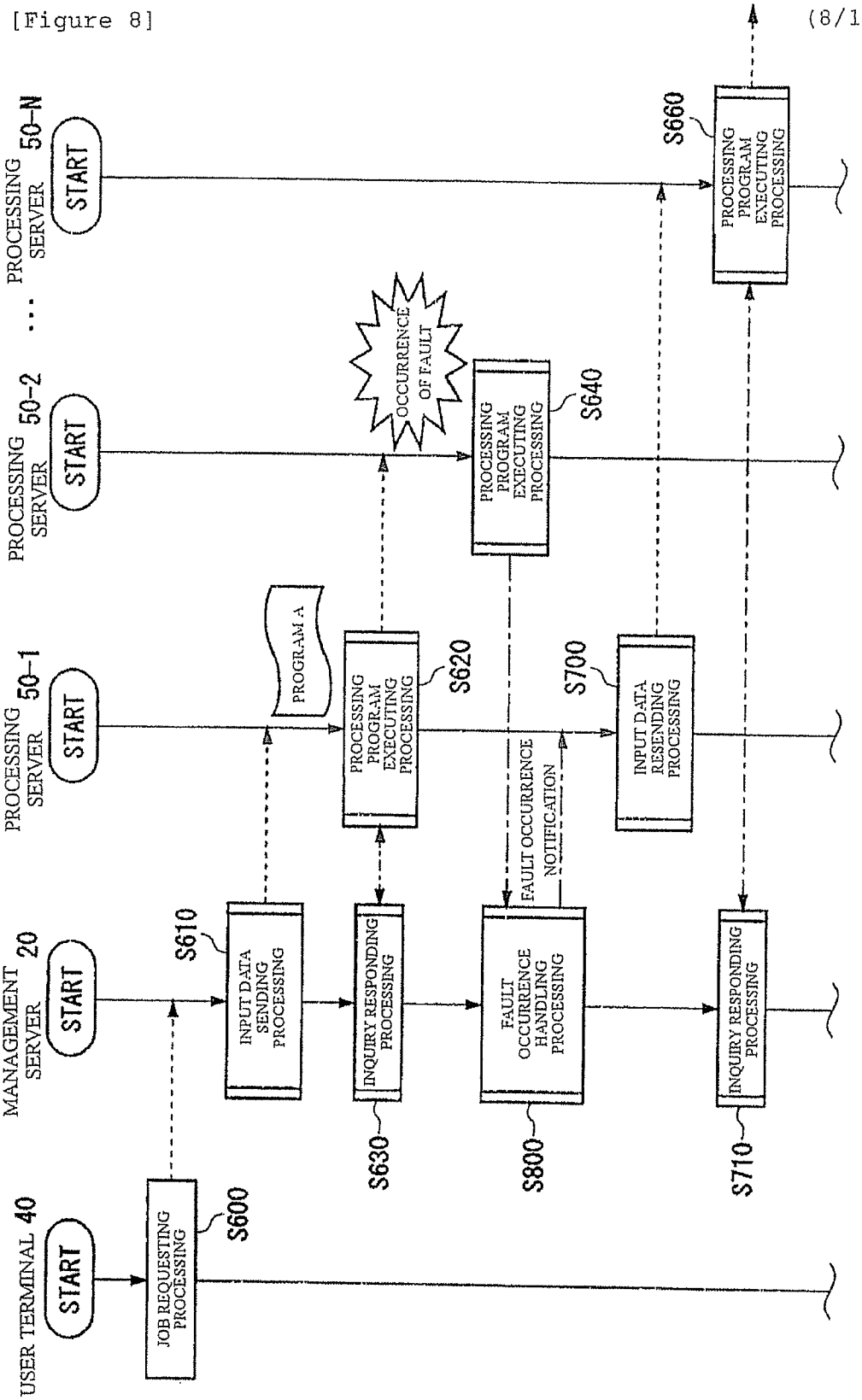
[Figure 6]


USER TERMINAL 40
MANAGEMENT SERVE 20
PROCESSING SERVER 50-1
PROCESSING SERVER 50-2
PROCESSING SERVER 50-N
START
END
JOB REQUESTING PROCESSING
S600
INPUT DATA SENDING PROCESSING
S610
PROGRAM A
PROGRAM B
PROGRAM X
PROCESSING PROGRAM EXECUTING PROCESSING
S620
S630
INQUIRY RESPONDING PROCESSING
S640
S650
S660
DELETING PROCESSING
S670
ACTIVATION DIRECTION
COMPLETION NOTIFICATION

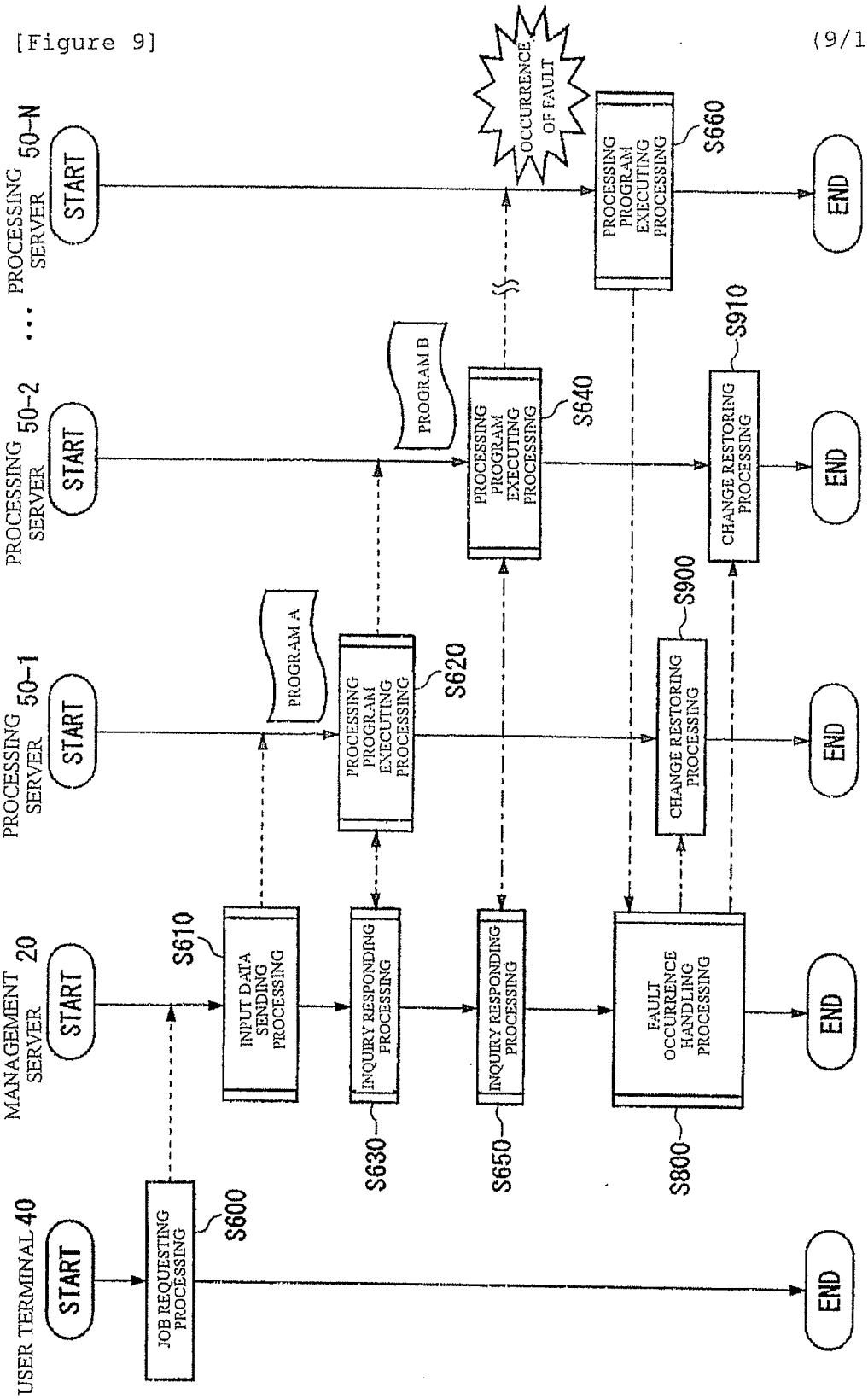
[Figure 7]


USER TERMINAL 40
START
JOB REQUESTING PROCESSING
S600
MANAGEMENT SERVER 20
START
S610
INPUT DATA SENDING PROCESSING
INQUIRY RESPONDING PROCESSING
S630
PROCESSING SERVER 50-1
START
PROGRAM A
PROCESSING PROGRAM EXECUTING PROCESSING
S620
REFUSAL NOTIFICATION
S700
INPUT DATA RESENDING PROCESSING
INQUIRY RESPONDING PROCESSING
S710
PROCESSING SERVER 50-2
START
ACTIVATION DIRECTION
OCCURRENCE OF FAULT
PROCESSING PROGRAM EXECUTING PROCESSING
S640
PROCESSING SERVER 50-N
START
PROCESSING PROGRAM EXECUTING PROCESSING
S660

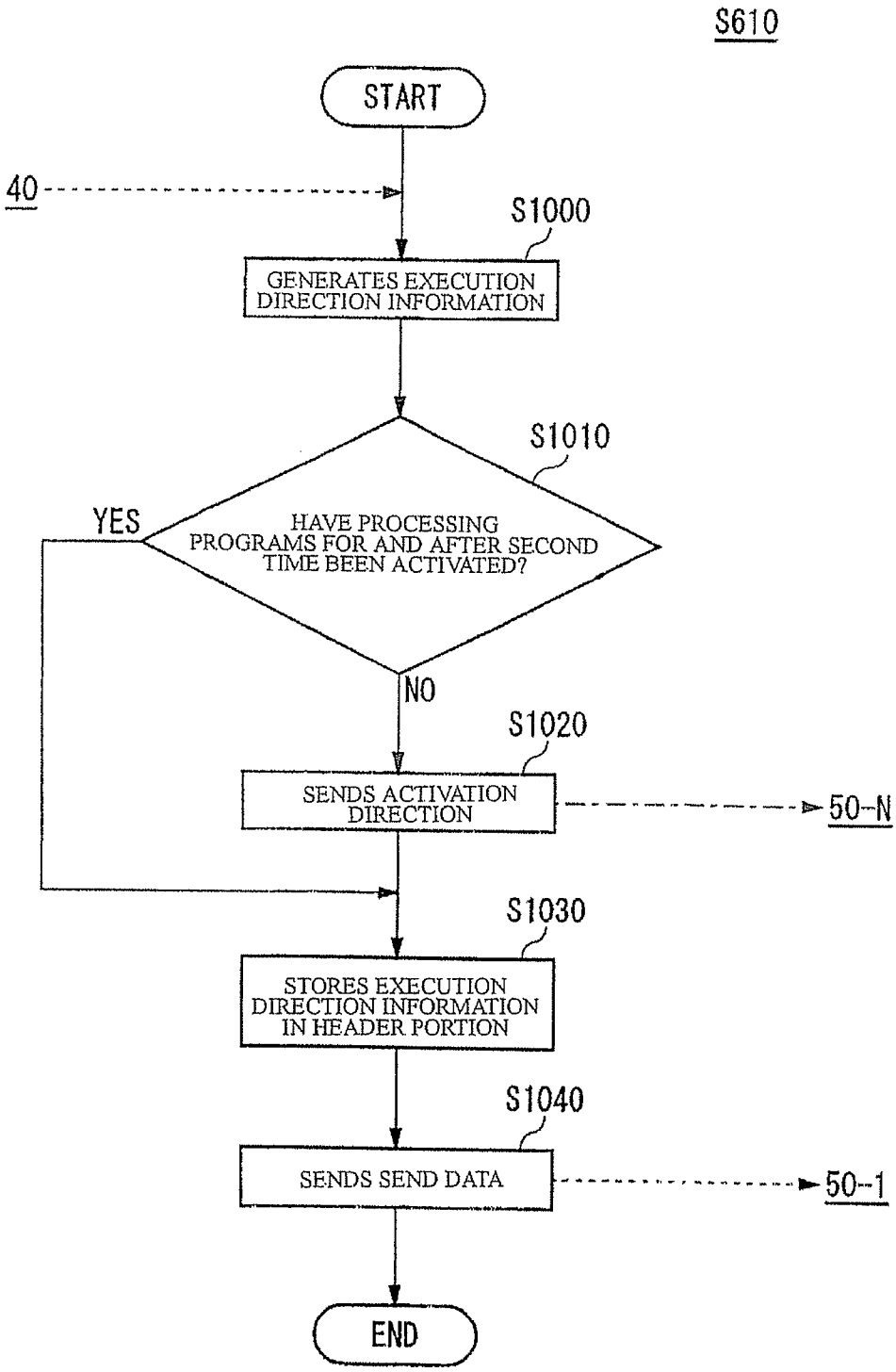
[Figure 8]


USER TERMINAL 40
START
JOB REQUESTING PROCESSING
S600
MANAGEMENT SERVER 20
START
S610
INPUT DATA SENDING PROCESSING
INQUIRY RESPONDING PROCESSING
S630
FAULT OCCURRENCE HANDLING PROCESSING
S800
INQUIRY RESPONDING PROCESSING
S710
PROCESSING SERVER 50-1
START
PROGRAM A
PROCESSING PROGRAM EXECUTING PROCESSING
S620
INPUT DATA RESENDING PROCESSING
S700
PROCESSING SERVER 50-2
START
OCCURRENCE OF FAULT
PROCESSING PROGRAM EXECUTING PROCESSING
S640
FAULT OCCURRENCE NOTIFICATION
PROCESSING SERVER 50-N
START
PROCESSING PROGRAM EXECUTING PROCESSING
S660

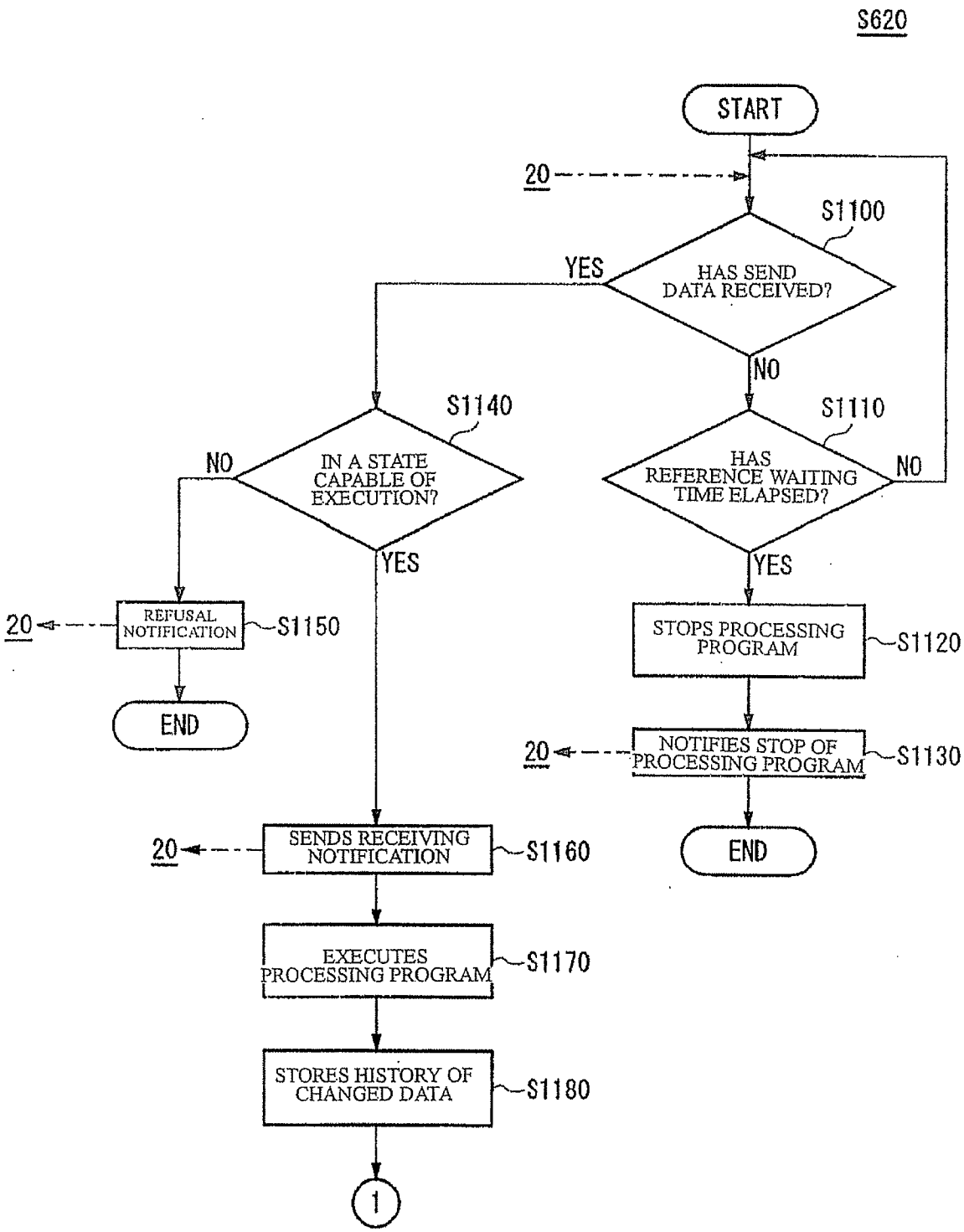
[Figure 9]


USER TERMINAL 40
MANAGEMENT SERVER 20
PROCESSING SERVER 50-1
PROCESSING SERVER 50-2
PROCESSING SERVER 50-N
START
END
JOB REQUESTING PROCESSING
S600
INPUT DATA SENDING PROCESSING
S610
INQUIRY RESPONDING PROCESSING
S630
INQUIRY RESPONDING PROCESSING
S650
FAULT OCCURRENCE HANDLING PROCESSING
S800
CHANGE RESTORING PROCESSING
S900
CHANGE RESTORING PROCESSING
S910
PROGRAM A
PROCESSING PROGRAM EXECUTING PROCESSING
S620
PROGRAM B
PROCESSING PROGRAM EXECUTING PROCESSING
S640
OCCURRENCE OF FAULT
PROCESSING PROGRAM EXECUTING PROCESSING
S660

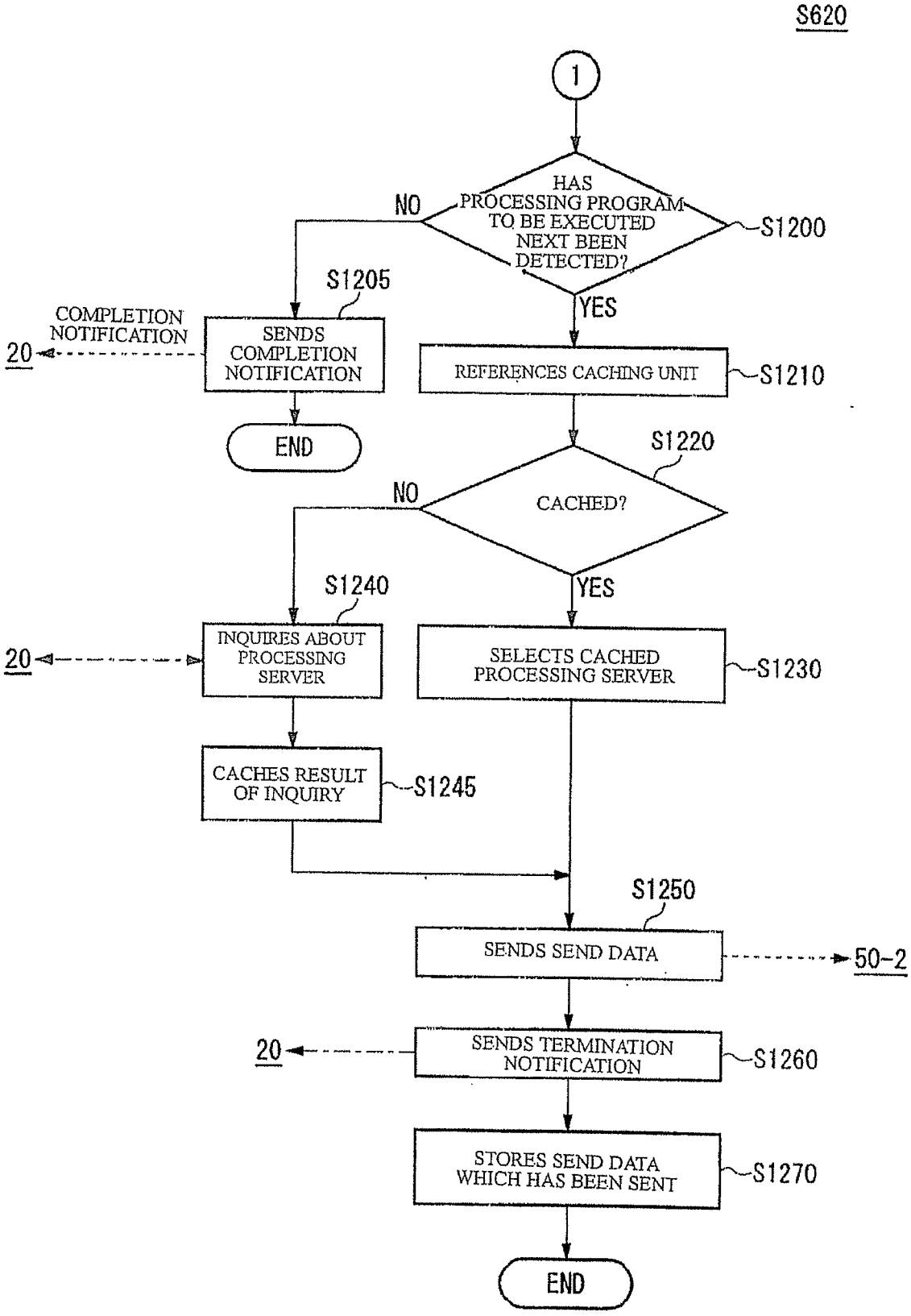
[Figure 10]


S610
START
40
S1000
GENERATES EXECUTION DIRECTION INFORMATION
S1010
HAVE PROCESSING PROGRAMS FOR AND AFTER SECOND TIME BEEN ACTIVATED?
YES
NO
S1020
SENDS ACTIVATION DIRECTION
50-N
S1030
STORES EXECUTION DIRECTION INFORMATION IN HEADER PORTION
S1040
SENDS SEND DATA
50-1
END

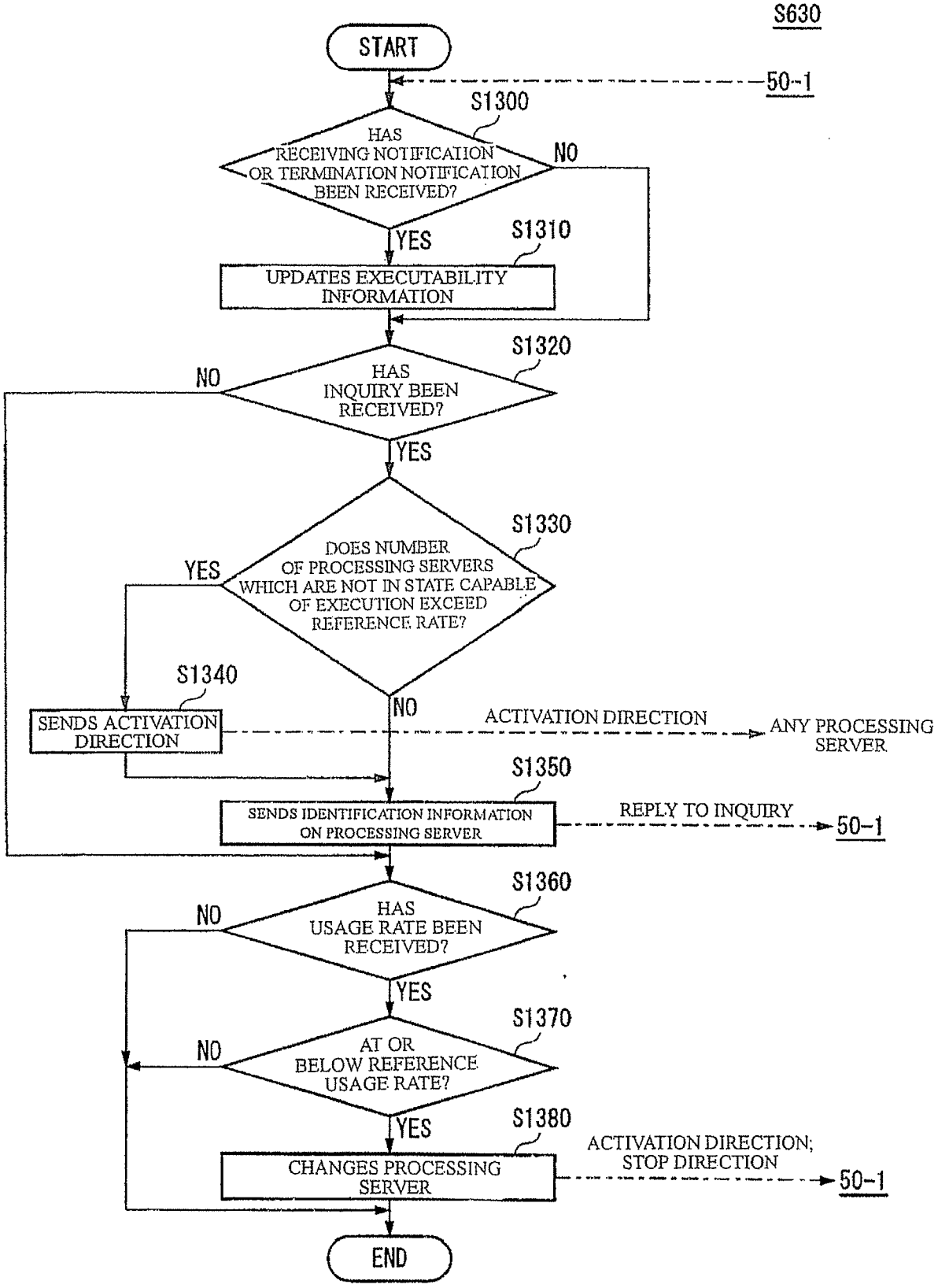
[Figure 11] (11/17)



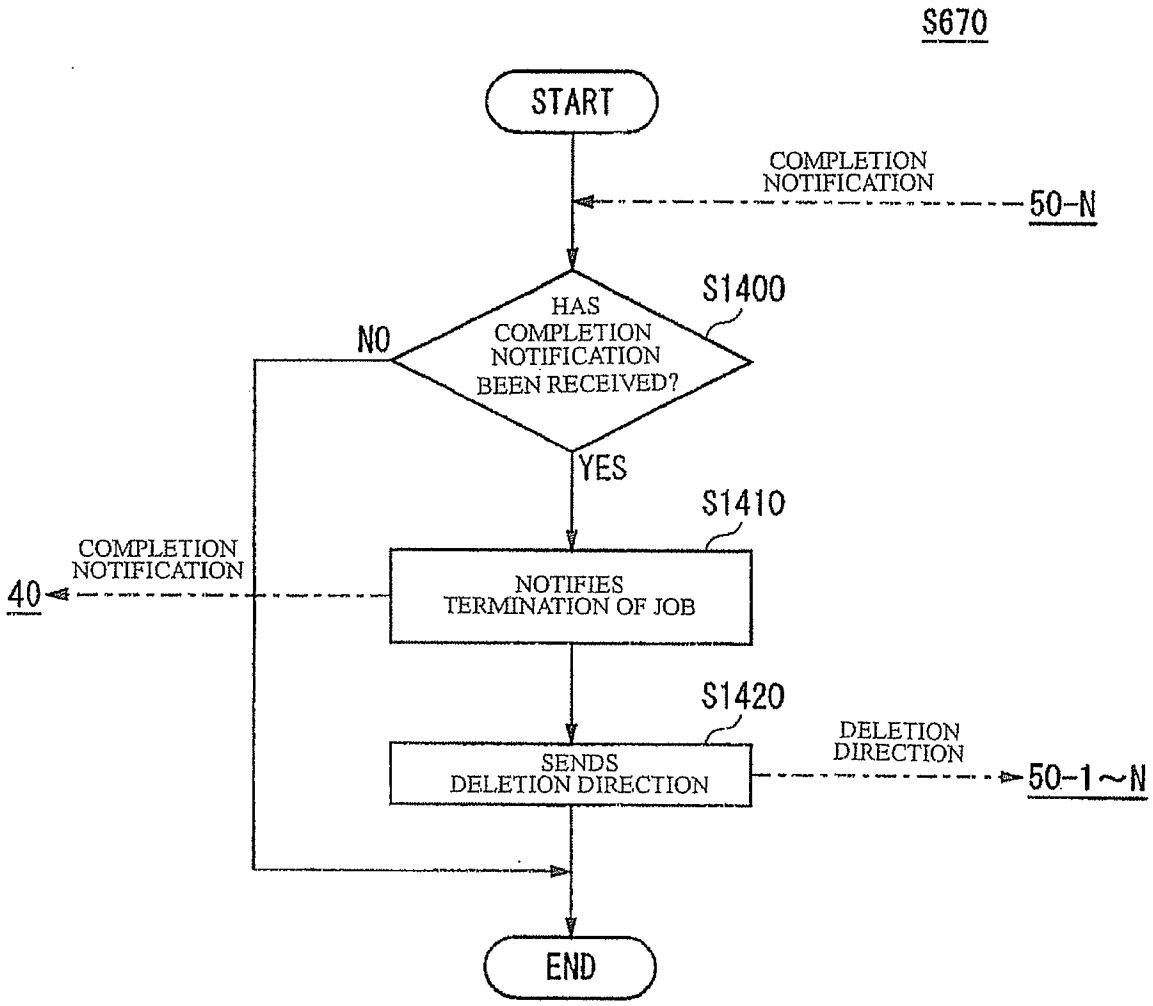
[Figure 12] (12/17)



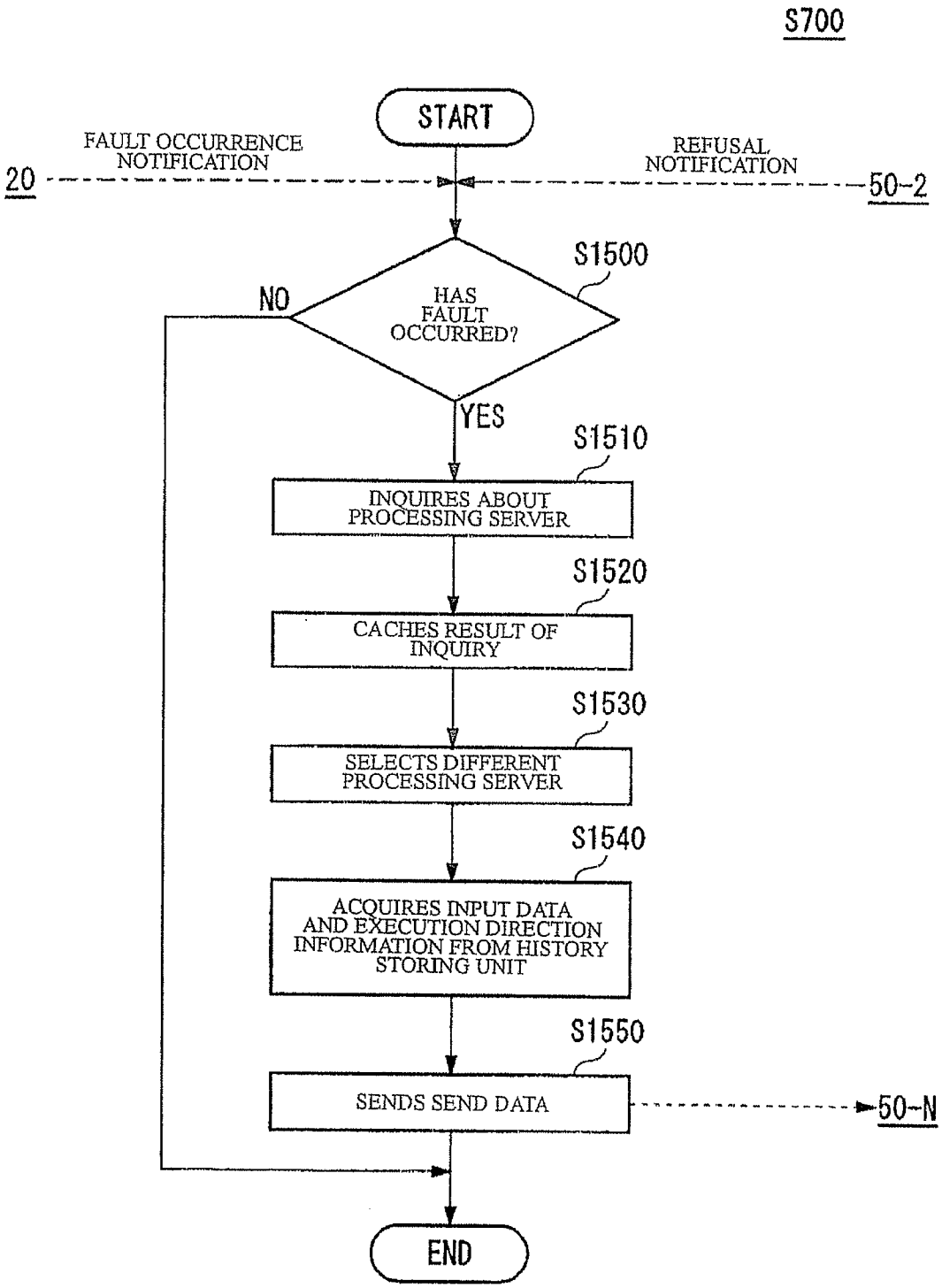
[Figure 13] (13/17)



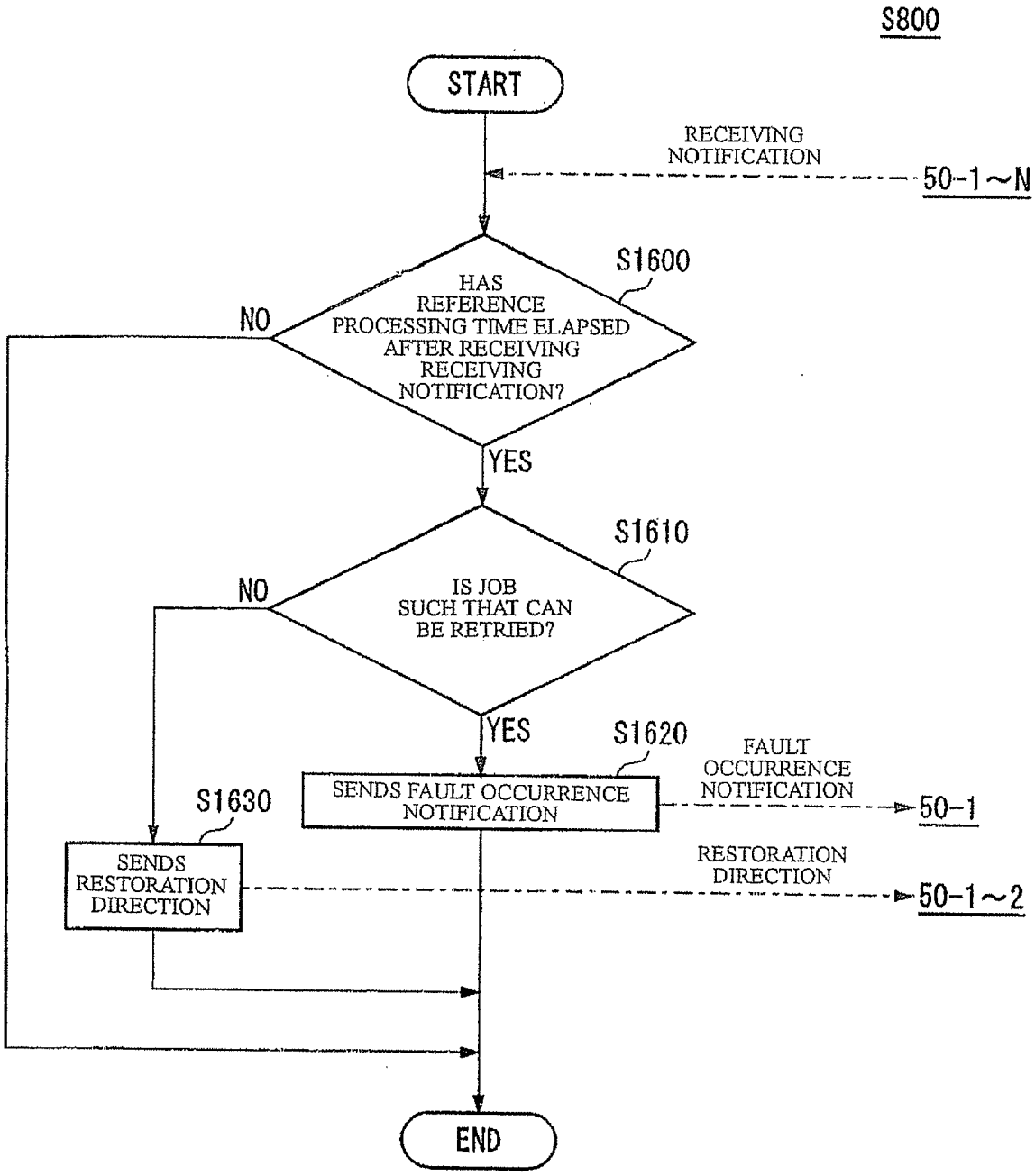
[Figure 14] (14/17)



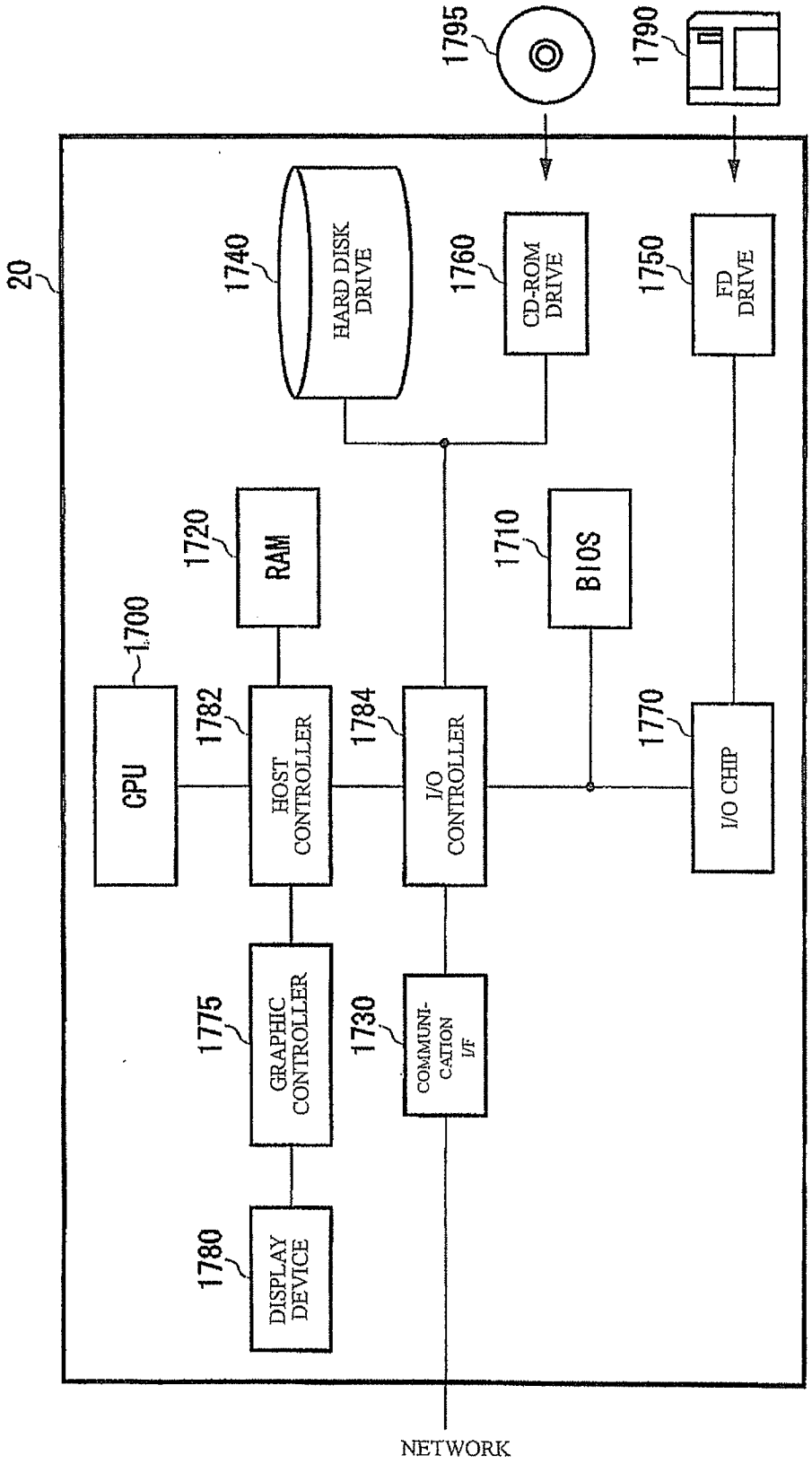
[Figure 15] (15/17)



[Figure 16] (16/17)



[Figure 17]


20
1795
1790
1740
HARD DISK DRIVE
1760
CD-ROM DRIVE
1750
FD DRIVE
1720
RAM
1710
BIOS
1700
CPU
1782
HOST CONTROLLER
1784
I/O CONTROLLER
1770
I/O CHIP
1775
GRAPHIC CONTROLLER
1730
COMMUNI-CATION I/F
1780
DISPLAY DEVICE
NETWORK